

forwarding the new data packet to the one network switch port for transfer to the router, based on a determined absence of the layer 3 destination addresses stored by the switching module.

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disabling learning of the destination IP address of the received data packet based on the determination that the corresponding one switch port has the corresponding learning bit disabled.

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10. The system of claim 9, wherein the switching module includes an address table configured for storing, for each network node connected to the network switch, a media access control (MAC) address, an Internet Protocol (IP) address, a virtual local area network (VLAN) identifier, and an identifier for one of the network switch ports connected to the corresponding network node.

11. The system of claim 9, wherein the host controller resets a learning bit for the one network switch port, the switching module disabling the learning of the data packets received by the one network switch port in response to detecting the learning bit reset for the one network switch port.